

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE onlines States Patent and Trademark Office Address: COMMESSIONER FOR PATENTS 1,0 Bpt. 1450
Assendria, Virginia 22313-1450
www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,920	08/07/2003	Andrew Brookfield Swaine	550-460	8856
23117	7590 03/16/2006		EXAMINER	
	'ANDERHYE, PC GLEBE ROAD, 11TH F	' PUENTE, EMERSON C		
	I, VA 22203	LOOK	ART UNIT	PAPER NUMBER
	•		2113	
			DATE MAILED: 03/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/635,920	SWAINE ET AL.			
		Examiner	Art Unit			
		Emerson C. Puente	2113			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DOWNSIONS of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a) <u>□</u> 3) <u>□</u>	Responsive to communication(s) filed on <u>07 Al</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-30</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdray.  Claim(s) is/are allowed.  Claim(s) <u>1,2,8,11-17,23 and 26-30</u> is/are reject.  Claim(s) <u>3-7,9,10,18-22,24 and 25</u> is/are object.  Claim(s) are subject to restriction and/or	vn from consideration. ted. ted to.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>05 January 2004</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) 🔲 Notice 3) 🔯 Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 6/15/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

Art Unit: 2113

## DETAILED ACTION

Claims 1-30 have been examined.

This action is made Non-Final.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 8, 11-13, 16, 17, 23, and 26-28 are rejected under 35 U.S.C. § **103(a)** as being unpatentable over US Patent 6,021,261 of Barrett, Jr et al. referred hereinafter "Barrett" in view of US Patent No. 6,031,847 of Collins et al. referred hereinafter "Collins".

In regards to claim 1 and 16, Barrett discloses:

at least one trace data source operable to generate an individual trace data stream including trace data signals and trace source identifying signals (see column 7 lines 25-29); and a trace bus coupled to said at least one trace data source (see figure 2 item 52, 56 or 60).

However, Barrett fails to explicitly disclose wherein the trace bus including trace data signal lines operable to carry trace data signals and trace source identifying signal lines operable to carry trace source identifying signals.

Collins discloses parallel transmission which communicates data between computer systems and terminals over several channels or lines (see column 1 lines 40-52).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Barrett and Collins such that data is communicated via parallel transmissions, indicating trace data signal lines operable to carry trace data signals and trace source identifying signal lines operable to carry trace source identifying signals. A person of ordinary skill in the art would have been motivated to combine the teachings because Barrett is concerned with transmitting datā from a tracer to a trace parser (see figure 2 and column 7 lines 66 to column 8 line 3) and parallel transmission, as per teachings of Collins, provides a known and fast means to transmit the data from a tracer to a trace parser (see column 1 lines 40-52).

In regards to claim 2 and 17, Barrett discloses:

wherein said trace data bus includes one or more data size indicating signal lines operable to carry one or more size indicating signals indicative of how many of said trace data signal lines are carrying trace data signals (see column 7 line 50).

In regards to claim 8 and 23, Barrett discloses:

comprising a trace data filter operable to perform trace data filtering in dependence upon said trace source identifying signals (see column 8 lines 9-12).

In regards to claim 11 and 26, Barrett discloses:

wherein said trace source comprises a software triggered trace data generator operable such that a software controlled write to one or more predetermined memory location triggers generation of a trace data stream by said software triggered trace data generator (see column 6 lines 29-32).

In regards to claim 12 and 27, Barrett discloses:

Application/Control Number: 10/635,920

Art Unit: 2113

wherein said trace data source includes one of: a processor core; a digital signal processor; and a memory bus monitor (see column 6 lines 33-34).

In regards to claim 13 and 28, Barrett discloses:

wherein said apparatus comprises an integrated circuit (see column 3 lines 47-49).

Claims 14, 15, 29, and 30 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Barrett in view of Collins and in further view of US Patent No. 6,687,860 of Iijima et al. referred hereinafter "Iijima".

In regards to claim 14 and 29, Barrett in view of Collins fails to explicitly disclose:

wherein said trace bus includes a trace data valid signal line operable to carry a valid signal generated by said trace data source and indicative of said trace data source being active to generate said trace data signals.

However, Iijima discloses a trace data valid signal line operable to carry a valid signal generated by said trace data source and indicative of said trace data source being active to generate said trace data signals (see column 13 lines 1-5).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Barrett and Collins with Iijima to include a trace data valid signal line operable to carry a valid signal generated by said trace data source and indicative of said trace data source being active to generate said trace data signals. A person of ordinary skill in the art would have been motivated to combine the teachings because Barrett is concerned with transmission of data (see figure 2 and column 7 lines 66 to column 8 line 3), and providing a data

Art Unit: 2113

valid signal, as per teachings of Iijima (see column 13 lines 1-5), would provide a more reliable transmission of data.

In regards to claim 15 and 30, Barrett in view of Collins fails to explicitly disclose:

wherein said trace bus includes a trace data receiver ready signal line operable to carry a ready signal generated by a trace data receiver coupled to said data bus and indicative of said trace data receiver being active to receive said trace data signals.

However, Iijima discloses a ready signal line operable to carry a ready signal generated by a trace data receiver coupled to said data bus and indicative of said trace data receiver being active to receive said trace data signals (see column 13 lines 1-5).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Barrett and Collins with Iijima to include a ready signal line operable to carry a ready signal generated by a trace data receiver coupled to said data bus and indicative of said trace data receiver being active to receive said trace data signals. A person of ordinary skill in the art would have been motivated to combine the teachings because Barrett is concerned with transmission of data (see figure 2 and column 7 lines 66 to column 8 line 3), and providing a data valid signal, as per teachings of Iijima (see column 13 lines 1-5), would provide a more reliable transmission of data.

## Allowable Subject Matter

Claims 3-7, 9,10, 18-22, 24, and 25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/635,920

Art Unit: 2113

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

See PTO 892.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Emerson C Puente whose telephone number is (571) 272-3652.

The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert W Beausoliel can be reached on (571) 272-3645. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

еср

ROBERT BEAUSOLIEL
SUPERVISORY PATENT EXAMINER

Page 6

TECHNOLOGY CENTER 2100

RMAUBemold